Profectis
Technischer Kundendienst
KARSTADT

Serviceunterlage

Fremdgeräte - Nr.:
DUAL DVD-
RECEIVER

DVD-PLAYER

```
UTS-Nr.:        701         KARSTADT / HERTIE
Best.Nr.:       2499382/00
FremdNr.:       DUAL DVD-RECEIVER
Ger.Bez.:       DVD RECEIVER

GKz:              F  FREMDGERAET
WGT:            643  CD-VIDEO
KD-Sektor:        S  SONDERGERAETE
BaumNr.:         00  KEIN DIAGNOSEBAUM VORHANDEN
Klassierung:    VCR
IFW-FehlerGru.: 203  VIDEORECORDER
Type/Privileg/Universum.Nr DUAL DVD-R9000
Beschreibung
VK-Preis: 111.11

Serviceart:           03  REGIONALE-REP.STELLE
Garantie fuer Kunden  06 Monate
Sondervereinbarungen:  0  SIEHE SERVICEART

Garantiereparatur     0854105  PROFECTIS GMBH
Sondervereinbarungen:       0  SIEHE SERVICEART

-------------------------------------------------------------------------------
Katalog                                          Seite
  Erst  014 HAUPTKATALOG H/W 2001                 0000
  Letzt 000 NOCH IM AKTUELLEN KATALOG             0000

-------------------------------------------------------------------------------
Geraete Info:

  SERVICE-MANUAL SIEHE UNTER QUELLE BEST.NR.: 838.405-9
  ************************************************************
  ACHTUNG:
  BEI REPARATUREN AM SUBWOOFER MUSS, UM BESCHAEDIGUNGEN ZU VERMEIDEN, IMMER ERST
  DER LAUTSPRECHER AUSGEBAUT WERDEN!! RUECKSEITEN-GITTER ABZIEHEN, LS AUSBAUEN
  (4 SCHRAUBEN), DANN KABELBINDER DER NETZTRAFOLEITUNG LOESEN (4 STUECK). JETZT
  KANN OBERE BLENDE (10 SCHRAUBEN) ABGEBAUT WERDEN.
  ************************************************************
  ACHTUNG:
  AN MPEG-PLATINE UND DVD-LAUFWERK SIND KEINE REPARATURVERSUCHE VORZUNEHMEN.
  DIESE TEILE DUERFEN NUR ALS EINHEITEN GETAUSCHT WERDEN UND SIND MIT FEHLERAN-
  GABE (!!!) RUECKSENDEPFLICHTIG.
-------------------------------------------------------------------------------
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Nachdruck nicht gestattet
Änderungen vorbehalten

SAFETY PRECAUTIONS

1. SAFETY PRECAUTIONS

Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing.

(1) Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience.

(2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning.

b. Be sure that there is no cabinet opening through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to , excessively wide cabinet ventilation slots and an improperly fitted and/or incorrectly secured cabinet back cover.

2. PRODUCT SAFETY NOTICE

Some electrical and mechanical parts have parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, ect. Parts that have special safety characteristics are identified by shading, by a (x) or (⚠) on the schematics and parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. Product Safety is under review continually and new instructions are issued whenever appropriate.

3. SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service manual and its supplements, read and follow the SAFETY PRECAUTIONS on this page.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

a. Always unplug the instrument AC power cord from the AC power source before:

(1) Removing or reinstalling any component, circuit board, module, or any other instrument assembly.

(2) Disconnecting or reconnecting any instrument electrical plug or other electrical connection.

(3) Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

Caution: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

b. Do not defeat any plug/socked B+ voltage interlocks with which instruments covered by this service manual might be equipped.

c. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solidstate device heat sinks are correctly installed.

d. Always connect a test instruments ground lead to the instrument chassis ground before connecting the test instrument ground lead last.

SPECIFICATIONS

DVD Player

- Pickup ..... Semiconductor laser, Wavelength 650 nm
- Signal system ..... NTSC / PAL
- Video signal horizontal resolution ..... More than 480 lines (DVD)
- Video signal-to-noise ratio ..... More than 60 dB (DVD)
- Audio frequency response (at 2 CH stereo mode) ..... DVD (PCM): 2 Hz ~ 22 kHz (+/- 1.0 dB)
  CD: 2 Hz ~ 20 kHz (+/- 1.0 dB)
- Audio signal-to-noise ratio ..... More than 80 dB
- Total harmonic distortion ..... Less than 0.01%
- Dynamic range ..... DVD (PCM): More than 85 dB (EIAJ, 2kHz, -60 dBFS)
  CD: More than 85 dB (EIAJ)

FM Tuner

- System ..... PLL quartz-locked digital synthesizer system
- Tuning range ..... 87.50 ~ 108.00 MHz (50 kHz step)
- Antenna ..... FM pigtail antenna
- Antenna terminals ..... 75 ohms, unbalanced
- Intermediate frequency ..... 10.7 MHz

AM Tuner

- System ..... PLL quartz-locked digital synthesizer system
- Tuning range ..... 522~1620 kHz (9 kHz interval)
- Antenna ..... AM Loop antenna

Video outputs

- CVBS Video ..... 1 Vp-p 75 ohms
- S-video ..... Y: 1 Vp-p 75 ohms
  C: PAL 0.3 Vp-p 75 ohms / NTSC 0.286 Vp-p 75 ohms
- Scart out ..... 1 Vp-p 75 ohms
- Optical & Coaxial out ..... 1 Vp-p 75 ohms

Audio line outputs

- Audio L/R ..... 2 Vrms, 1 kilohms
- Subwoofer ..... 5 Vrms maximum (adjustable), 1 kilohms

Audio power outputs

- Stereo mode ..... 20 W + 20 W (4 ohms at 1 kHz, THD 10%)
- Surround mode ..... Front: 20 W + 20 W (4 ohms at 1 kHz, THD 10%)
  Center: 20 W (4 ohms at 1 kHz, THD 10%)
  Rear: 20 W + 20 W (4 ohms at 1 kHz, THD 10%)
- Phones ..... Headphones jack(stereo 6.35mm)

General

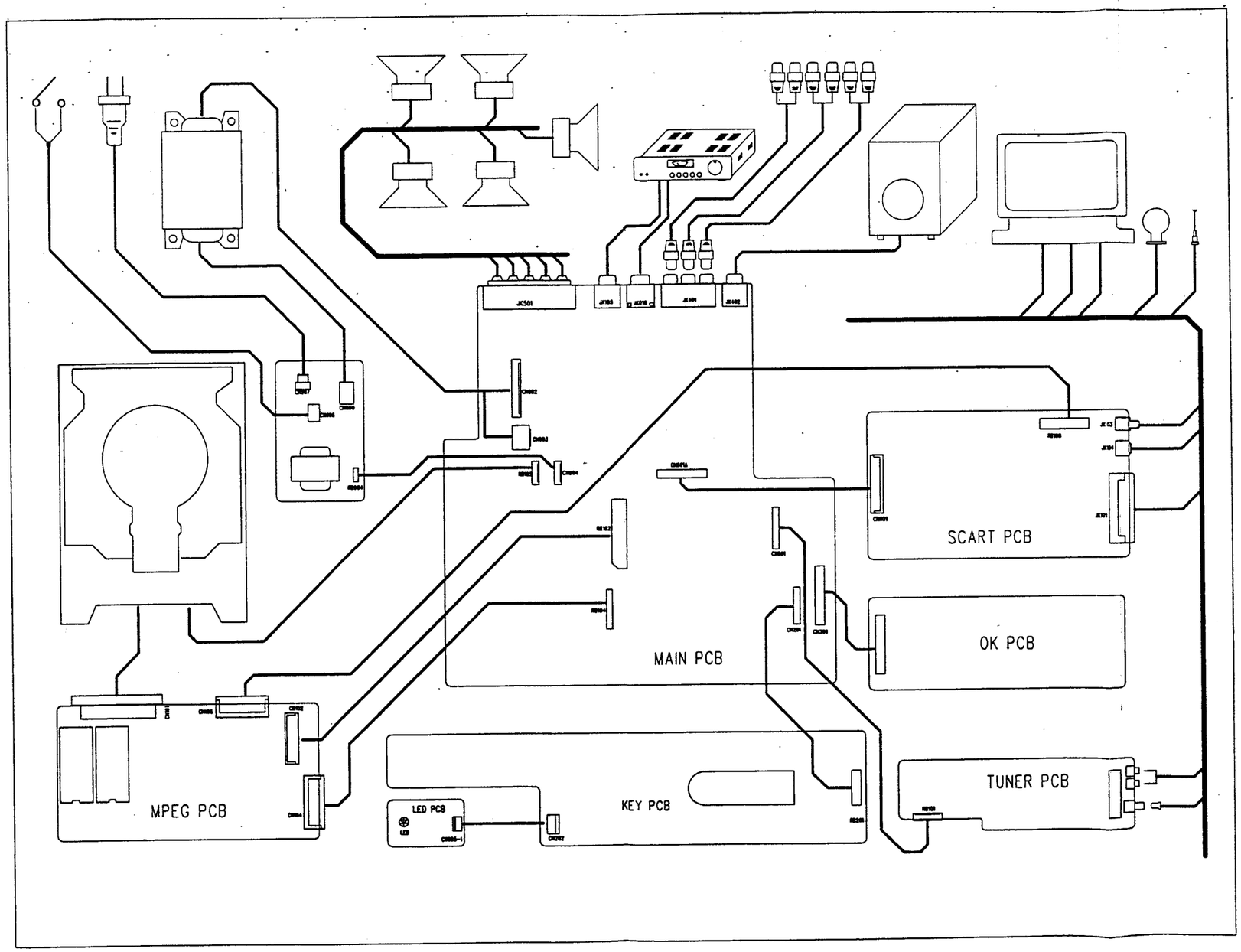
- Power requirements ..... AC 230 V, 50 Hz
- Power consumption ..... 200 W
- Dimensions (main unit) ..... W 430x H78x D378 mm
- Weight ..... 8.2 kg

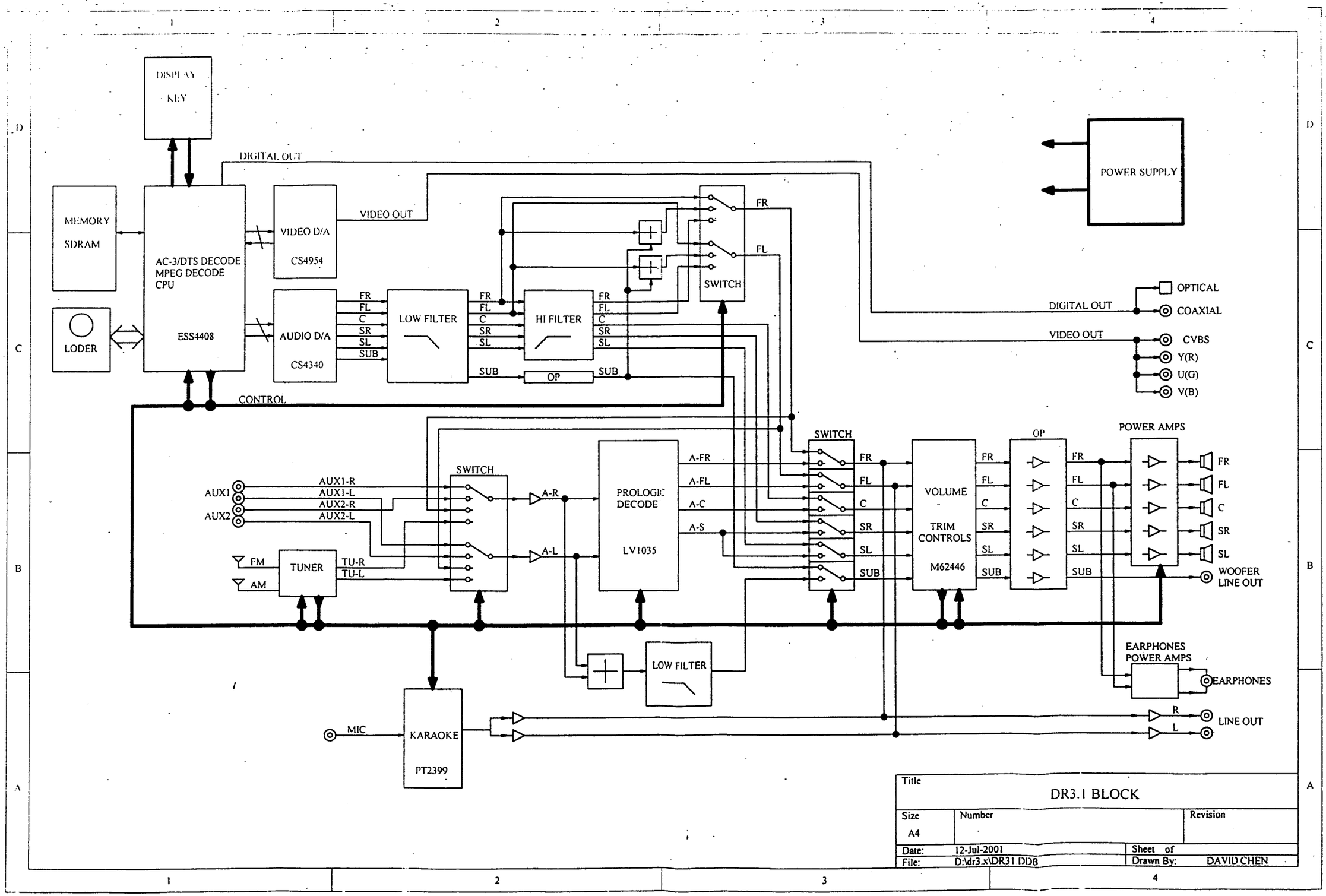
SPECIFICATIONS

Speakers

- Active Subwoofer ..... Output power : 75 W (4 ohms at 80Hz, THD 10%)
  Speaker system : Bass reflex
  Power reguirements : AC 230 V, 50 Hz
  Power consumption : 50 W
  Speaker unit : 8 inches, dia, cone type
  Rated impedance : 4 ohms
  Dimensions : W200x H333x D328 mm
  Weight : 7.1 kg
- Front / Center / Rear speakers ..... Power: 25 W maximum
  Speaker system: Bass reflex
  Speaker unit: 2 7/8 inches,dia,cone type
  Rated impedance: 4 ohms
  Dimensions: W90x H150x D110 mm
  Weight: 0.5 kg

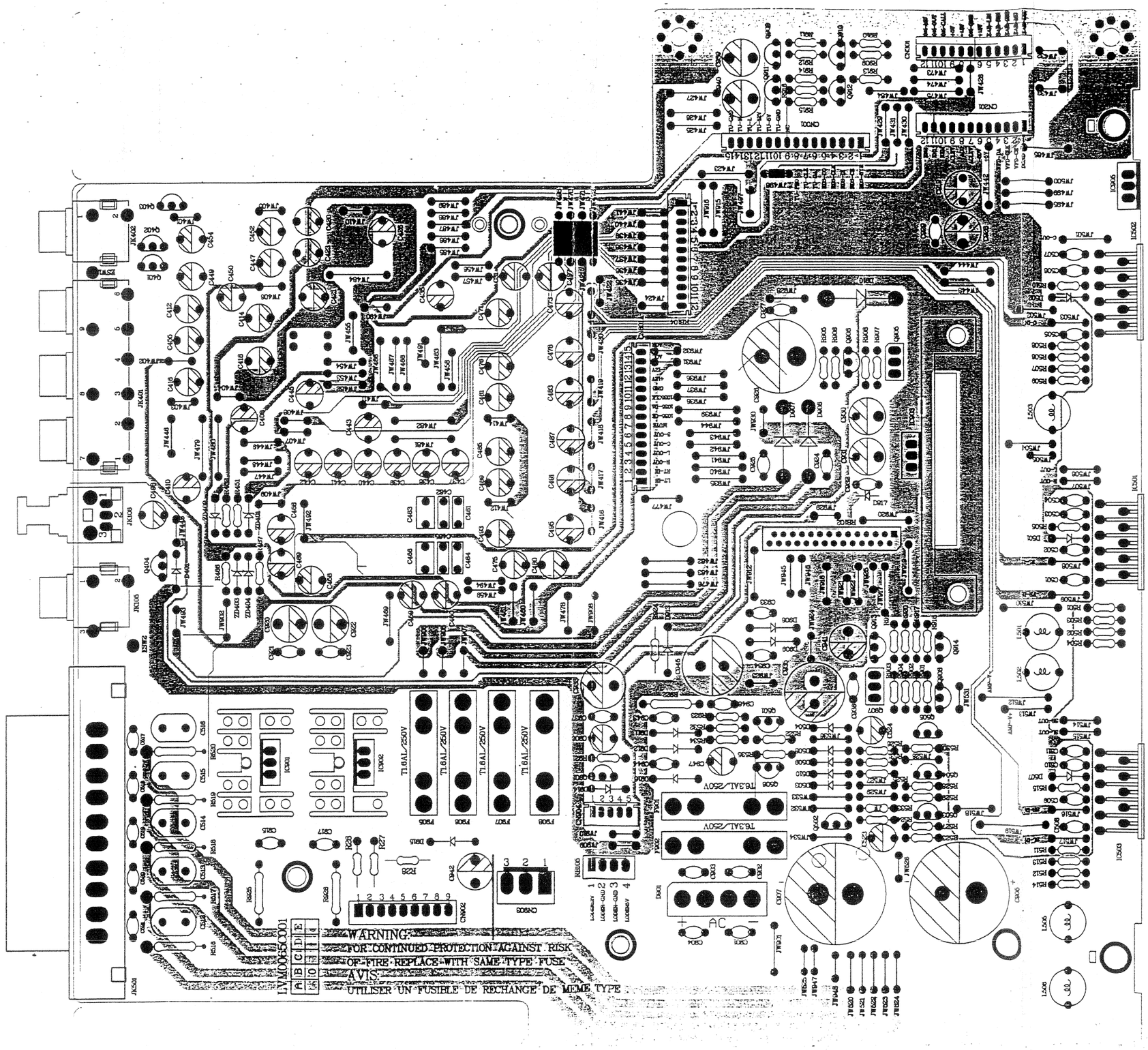
Design and specifications are subjected to change without notice.
Weight and dimensions are approximate.

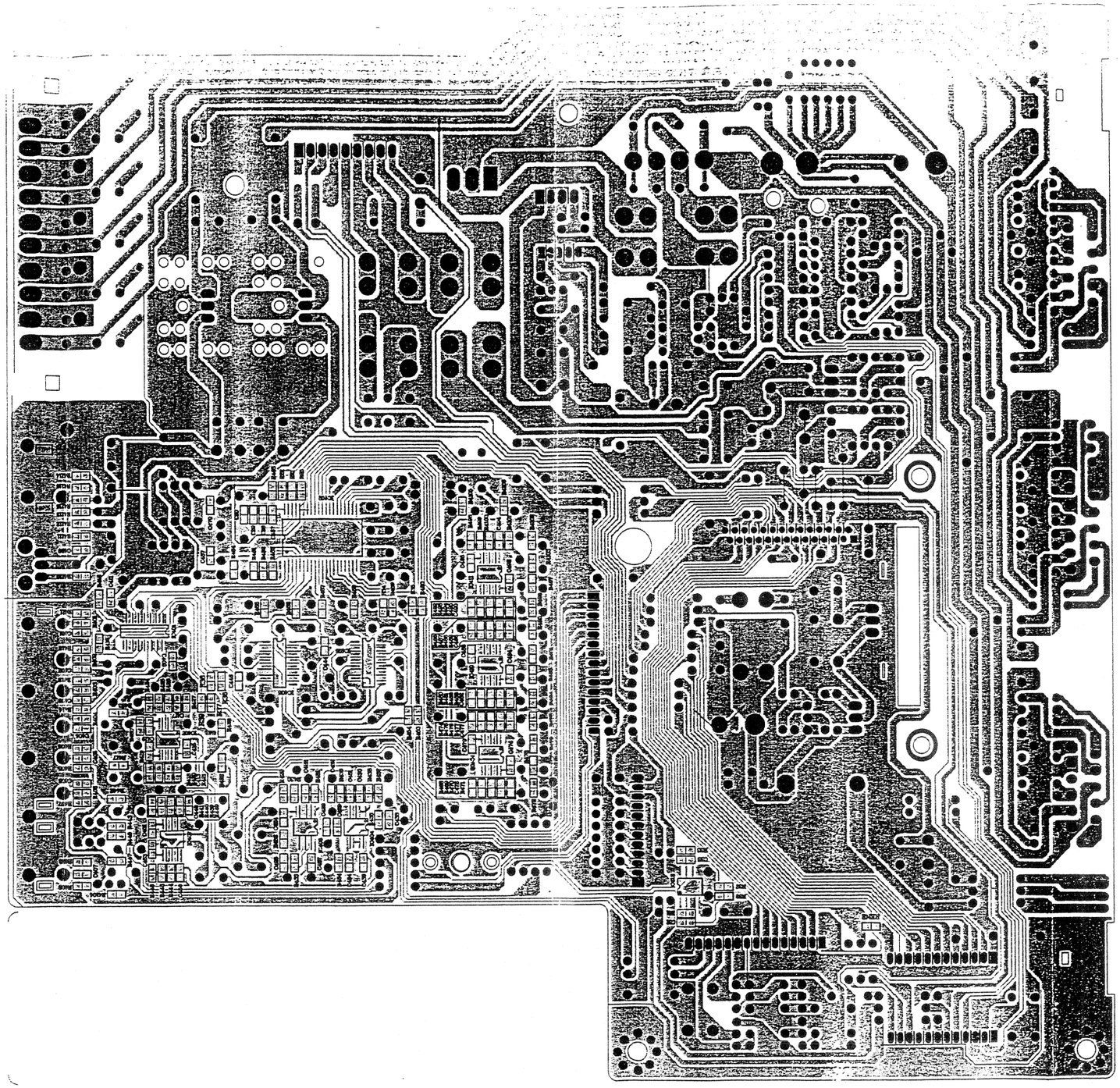

SCART PCB
OK PCB
MAIN PCB
MPEG PCB
LED PCB
KEY PCB
TUNER PCB



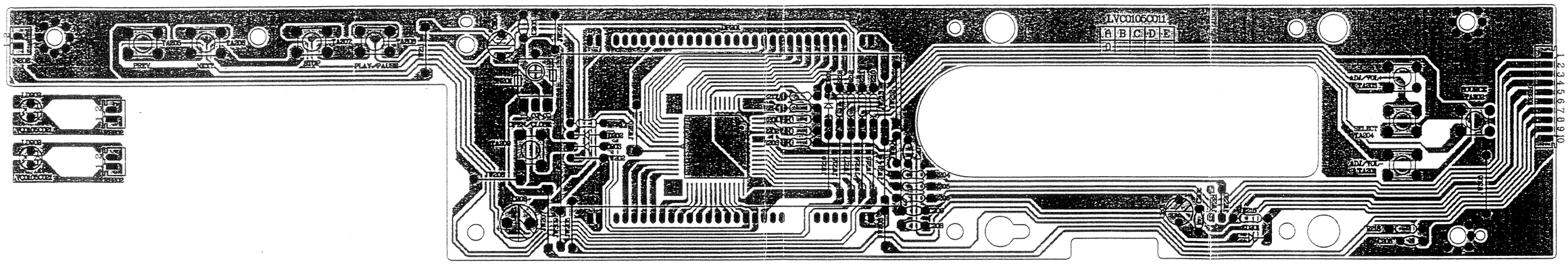
Title	DR3.1 BLOCK		
Size A4	Number		Revision
Date:	12-Jul-2001	Sheet of	
File:	D:\dr3.x\DR31 DDB	Drawn By:	DAVID CHEN

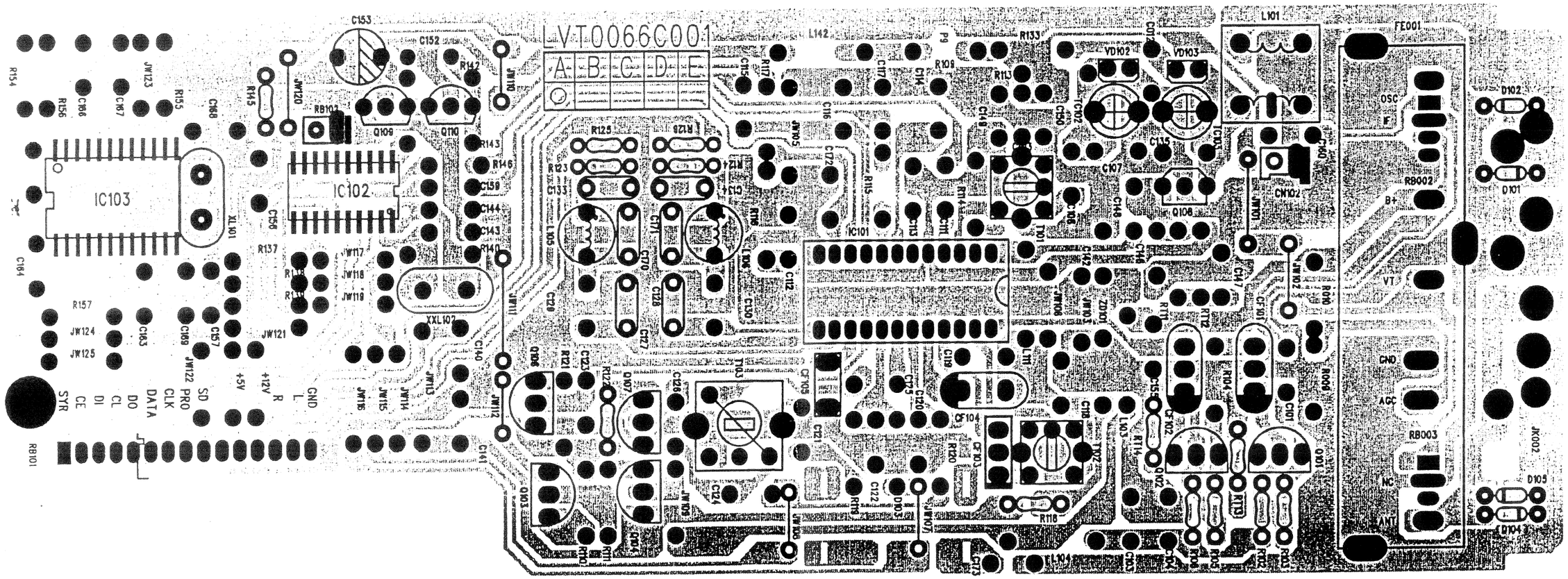
MAIN BLOCK DIAGRAM



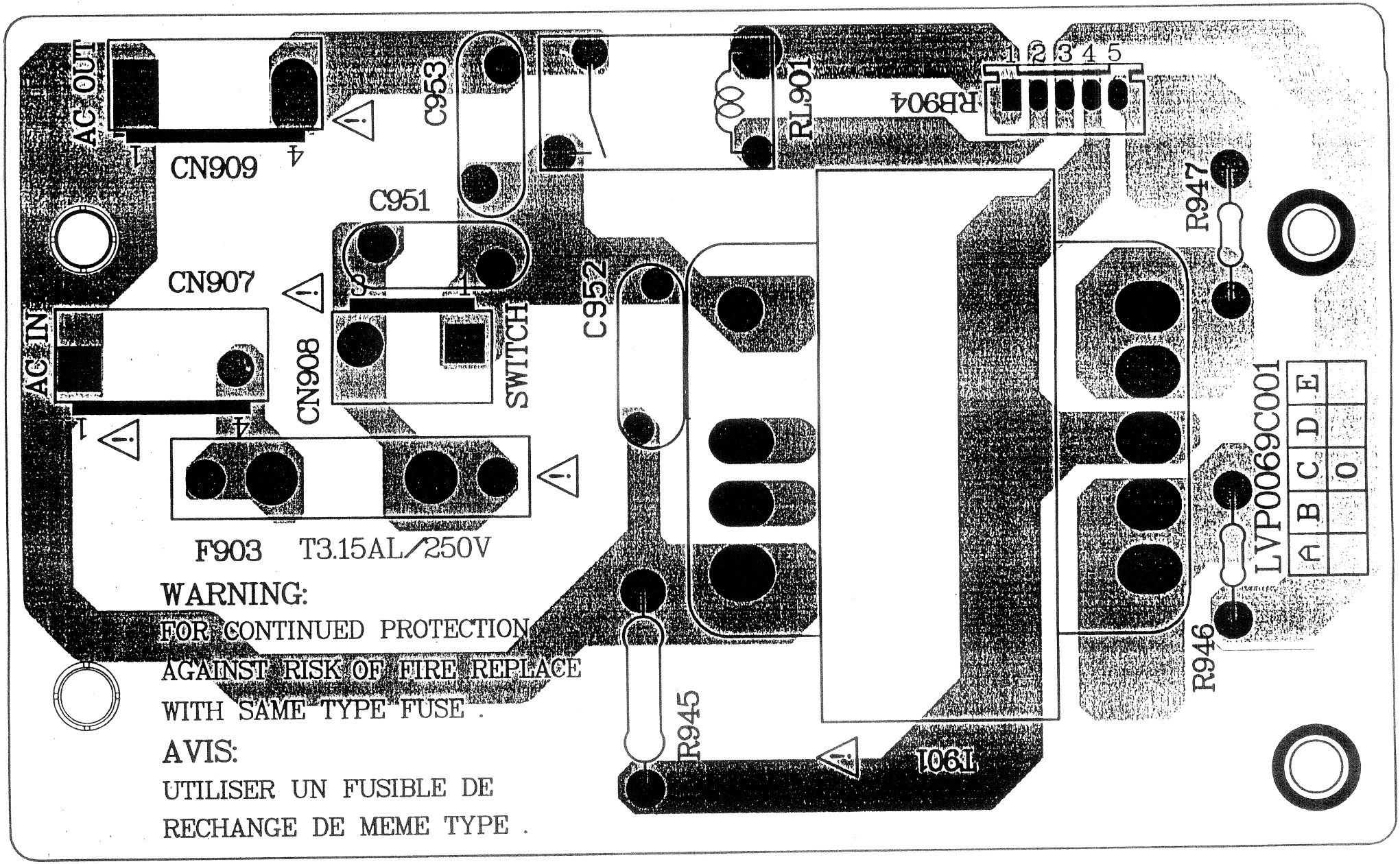


DR3.2 LED BLOCK DIAGRAM + CONTROL

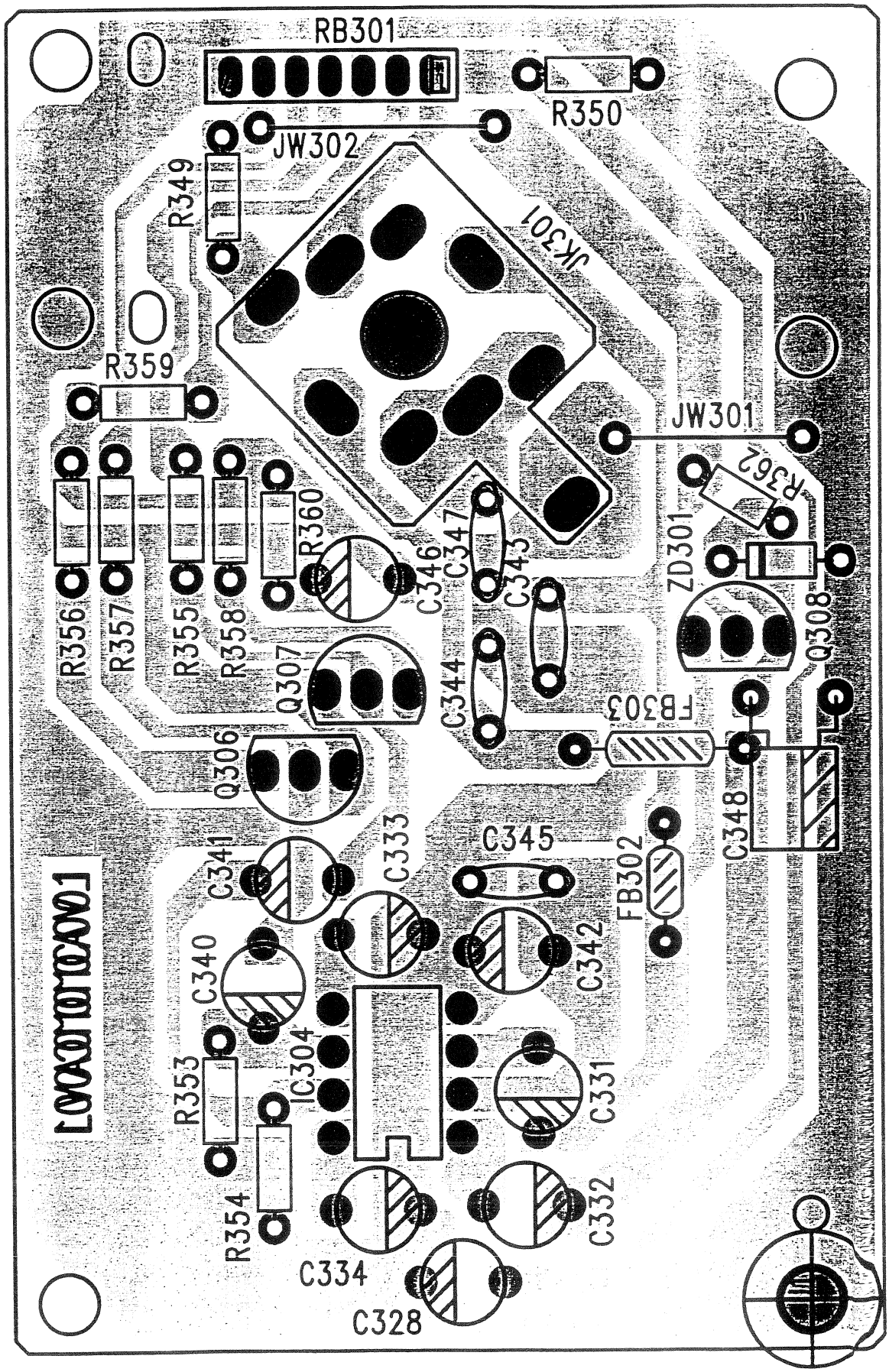




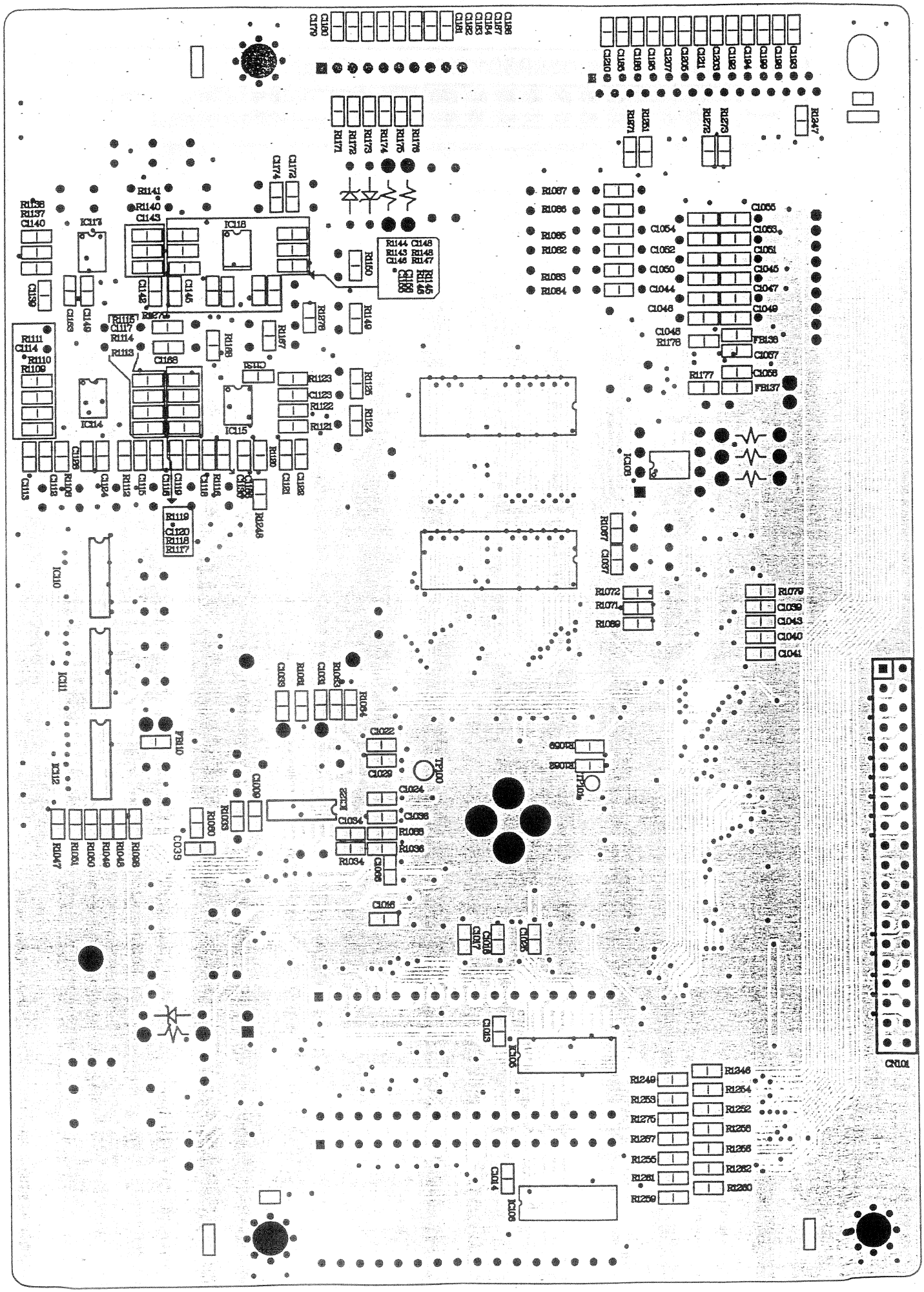
TUNER BLOCK DIAGRAM

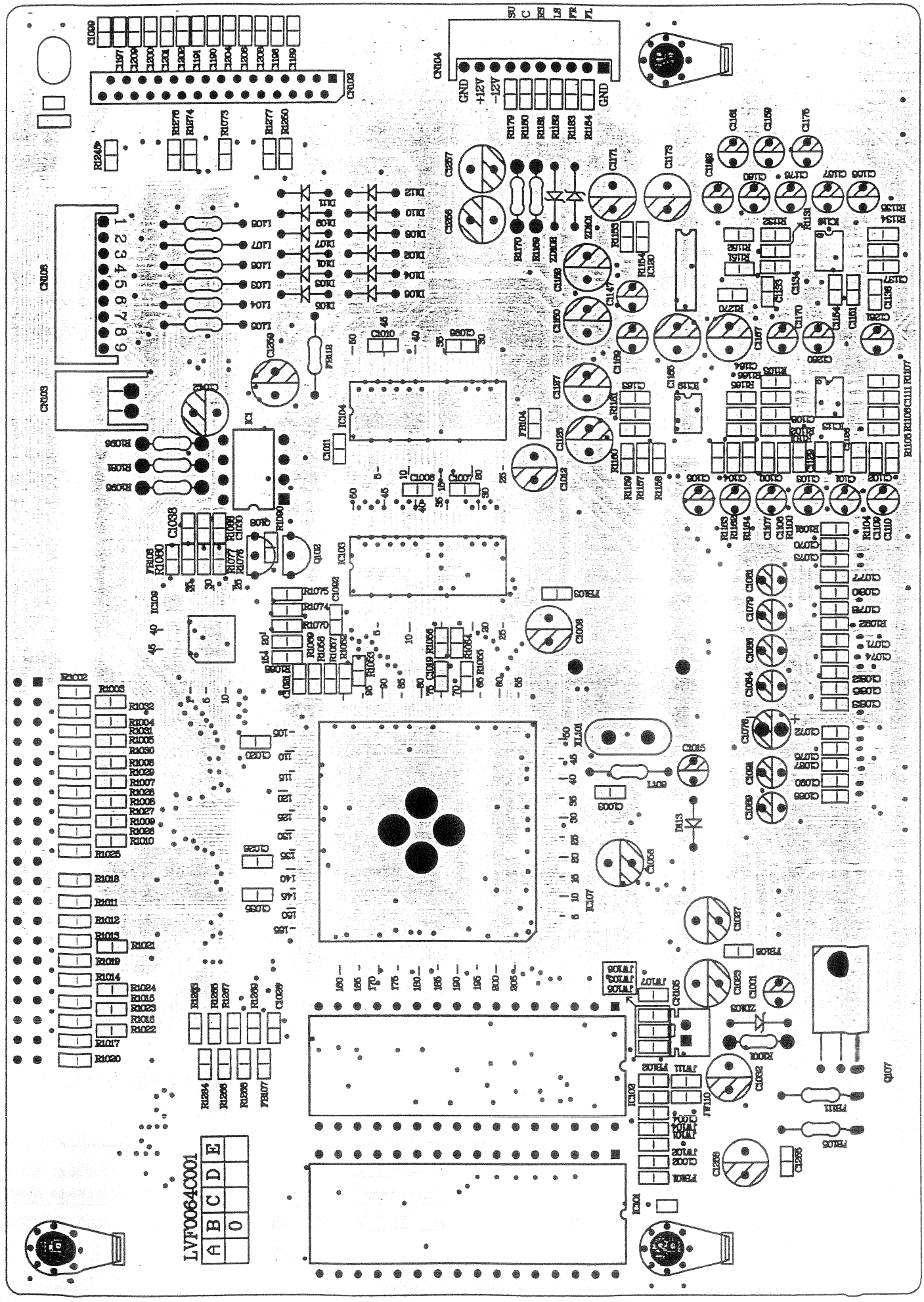


POWE BLOCK DIAGRAM


RB301
R350
JW302
R349
JK301
R359
JW301
R361
R360
C346
C347
C343
ZD301
Q308
R356
R357
R355
R358
Q307
C344
FB303
Q306
C348
C341
C333
C345
FB302
C340
C342
IC304
R353
C331
R354
C332
C334
C328

DECODER BLOCK DIAGRAM (BOTTOM)




LVF00640001
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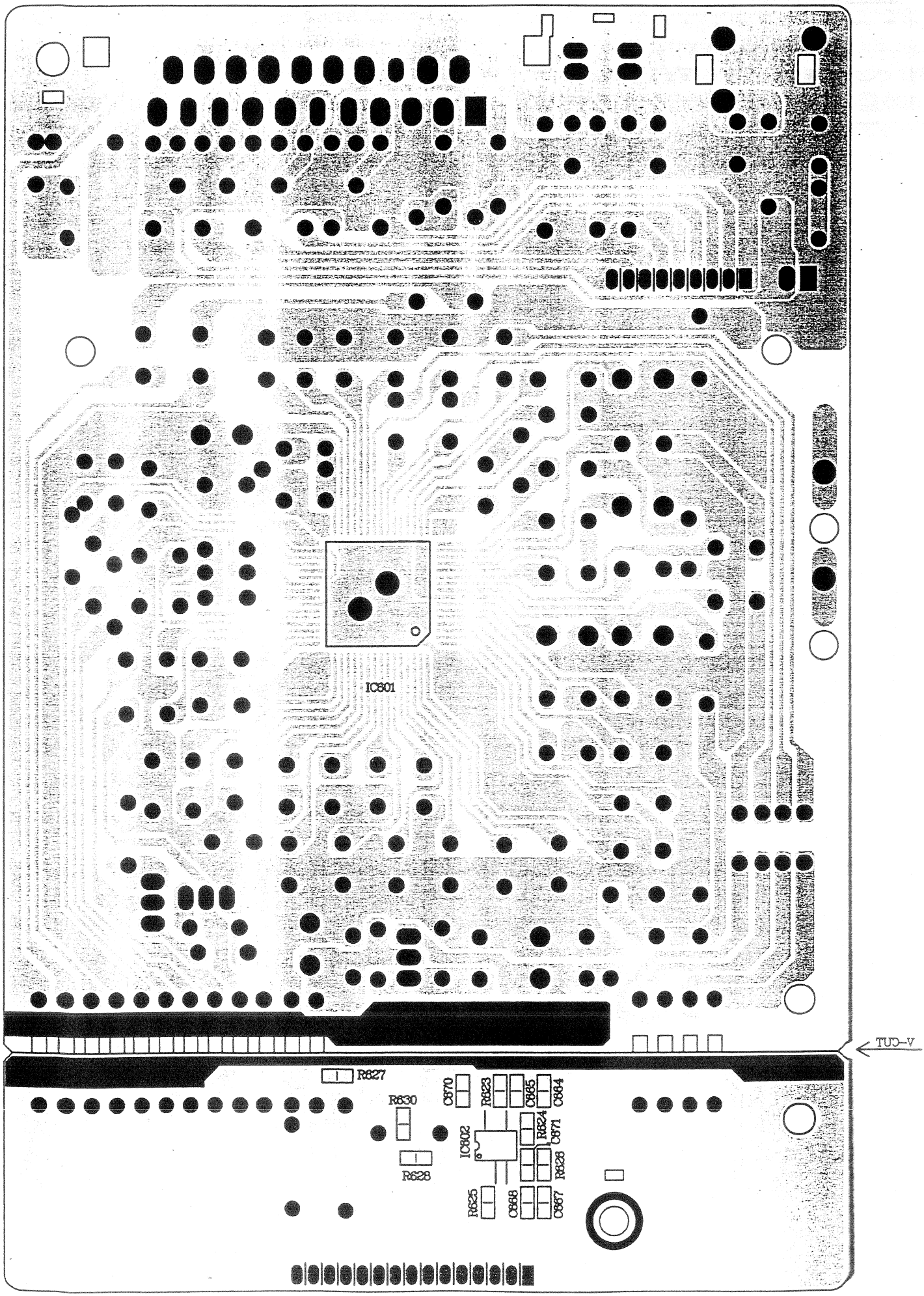
IC601
TUO-V
R627
R630
R628
C870
R623
C865
C864
IC602
R624
C871
R626
R625
C868
C867

PRO LOGIC BLOCK DIAGRAM (TOP)

SWAN ES4408

IC107
ES4408

IC103
SDRAM 512KX16X2 (10ns)

IC104
SDRAM 512KX16X2 (10ns)

CN101 ATAPI

IC105 74ALS374

IC106 74ALS374

IC109
CS49545_CQ

IC110
CS43409-KSZ

IC111
CS43409-KSZ

IC112
CS43409-KSZ

IC101	IC102	JW101	JW102	JW103	JW104	JW105	JW106	JW107
27C020	27C020	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
27H010	27H010	OPEN	CLOSE	OPEN	OPEN	OPEN	OPEN	OPEN
N/A	27C040	OPEN	OPEN	CLOSE	OPEN	OPEN	OPEN	OPEN
N/A	27H040	OPEN	CLOSE	OPEN	OPEN	CLOSE	CLOSE	OPEN
27C040	27C040	OPEN	OPEN	OPEN	CLOSE	OPEN	OPEN	OPEN
27H040	27H040	OPEN	CLOSE	OPEN	OPEN	CLOSE	OPEN	CLOSE
N/A	27C080	OPEN	OPEN	OPEN	CLOSE	OPEN	CLOSE	OPEN

A	B	C	REGIONAL
0	0	1	1
0	1	1	2
1	0	1	3
1	1	1	4

SETUP REGIONAL:

JW281=A

JW282=B

JW283=C

SETUP A B C:

INSTALL=0

NOT INSTALL=1

TO TUNER BOARD

IC601
LV1035M

IC401 4052

IC405 4053

IC407 4558

IC409 4558

IC410 4558

IC411 4558

IC602 4558

IC403 4558

IC404 4558

IC408 LA4446MF

JK101 SCART 21PIN

JK103 S-VIDEO

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JK401

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CN1000

SETUP A B C
INSTALL=0
NOT INSTALL=1

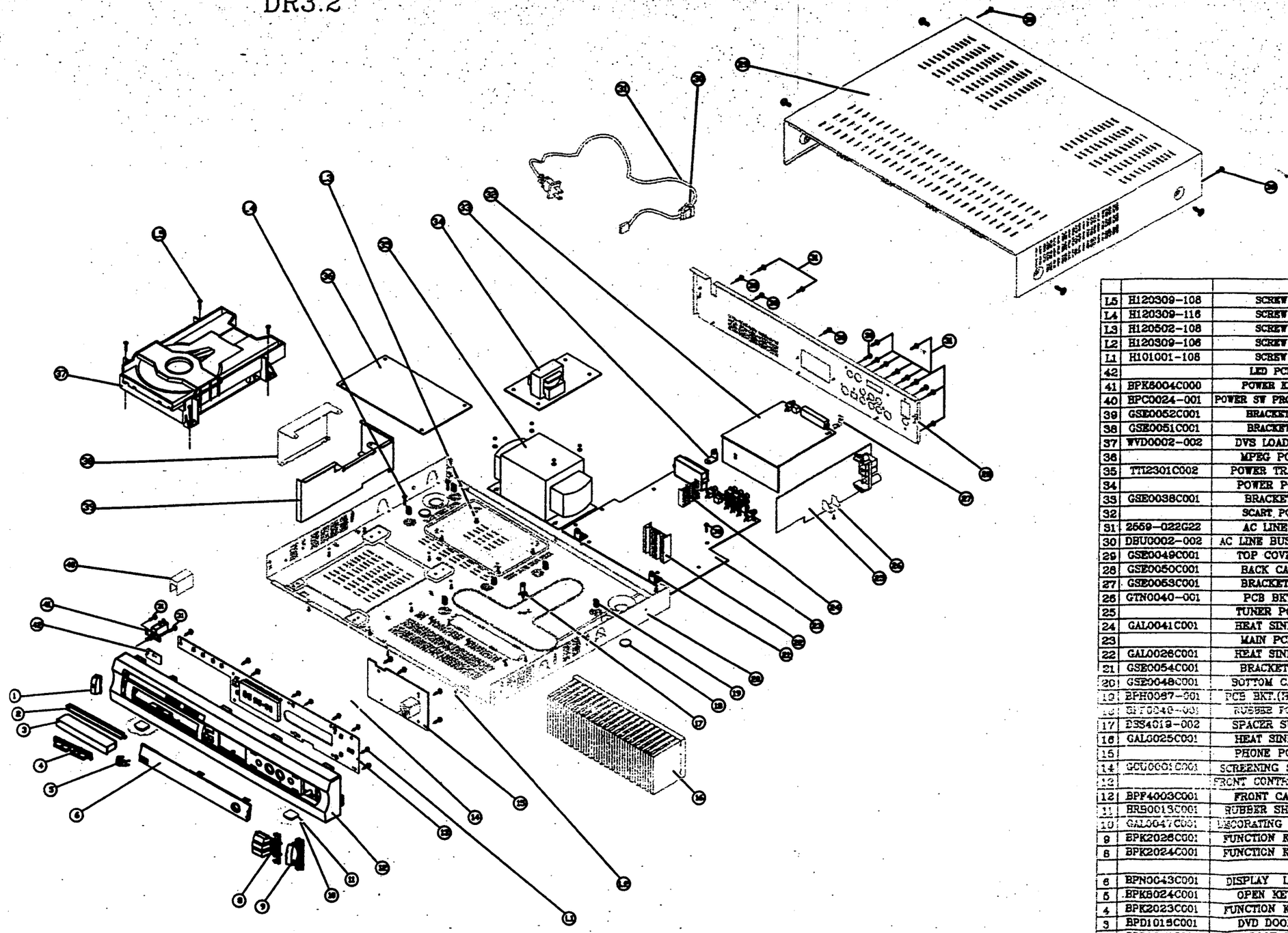
1	0	1	3
1	1	1	4

C205 104
C206 15P
RB201
CN201
EARPHONE
IC304 TDA2822M
RB301
CN301
FUSE RESISTOR X 3
D915 1N4001
D914 1N4148
Q901 2SC2878
D913 1N4001
D912 1N4001
D911 1N4001
D916 1N4001
C945 3300UF/25V
C943 223/100V
C944 223/100V
CN904
IC901 7812
IC902 7912
IC903 7806
IC905 7805
FUSE RESISTOR
TRANSFORMER
RB902
RB903
RB904
RB907
RB908
RB909
CN902
CN903
CN907
CN908
CN909
SWITCH
TO LOADER
IC501 TDA7265
IC502 TDA7265
IC503 TDA7265
JK301
Q505 A733
Q503 C945
Q502 C945
Q501 C945
Q506 C945
Q504 A733
Q507 2SC2878
Q508 2SC2878
Q509 2SC2878
Q510 2SC2878
Q511 2SC2878
Q512 2SC2878
IC409A 4558
IC410B 4558
IC410A 4558
IC411B 4558
IC411A 4558

DESIGN	David CHen	TITLE	PART NO:
CHECKED1		MODEL DR3.2	DWG. NO: 2001/05/30
CHECKED2		SIZE: A0	SCALE:
APPRD.		SHEET OF	VER.: A

Easterm Asia Technology Group Technical Center
ShenZhen Department

DR3.2



L5	H120309-108	SCREW	M3x8x0.5P	4	
L4	H120309-116	SCREW	M3x16x0.5P	6	
L3	H120502-108	SCREW	M3X0.5PX24	4	
L2	H120309-106	SCREW	M3x6x0.5P	34	
L1	H101001-108	SCREW	M3.0xP1.27-2RHx1.3mm	31	
42		LED PCB	PCB T=1.6mm	1	
41	BPK5004C000	POWER KEY	ABS SPRAYING OIL	1	
40	BPC0024-001	POWER SW PROTECTOR	HIPS	1	
39	GSE0052C001	BRACKET2	SECC T=0.8mm	1	
38	GSE0051C001	BRACKET1	SECC T=0.8mm	1	
37	WVD0002-002	DVS LOADER		1	
36		MPEG PCB		1	
35	TT12301C002	POWER TRANS		1	
34		POWER PCB	PCB T=1.6mm	1	
33	GSE0038C001	BRACKET	SECC T=0.8mm	1	
32		SCART PCB	PCB T=1.6mm	1	
31	2559-022G22	AC LINE		1	
30	DBU0002-002	AC LINE BUSHING	HIPS	1	
29	GSE0049C001	TOP COVER	SECC T=0.6mm	1	
28	GSE0050C001	BACK CAB	SECC T=0.8mm	1	
27	GSE0053C001	BRACKET3	SECC T=0.8mm	1	
26	GTN0040-001	PCB BKT	AM715D	1	
25		TUNER PCB	PCB T=1.6mm	1	
24	GAL0041C001	HEAT SINK3		2	
23		MAIN PCB	PCB T=1.6mm	1	
22	GAL0026C001	HEAT SINK2		1	
21	GSE0054C001	BRACKET4	SECC T=0.8mm	1	
20	GSE0048C001	BOTTOM CAB.	SECC T=1.0mm	1	
19	BPH0097-001	PCB BKT.(HB.5)	HIPS	5	
18	GTF0040-001	RUBBER FOOT		7	
17	DSS4019-002	SPACER SUP	OD=4.0 ID=1.9 L=18	1	
16	GAL0025C001	HEAT SINK1		1	
15		PHONE PCB		1	
14	GDU0001C001	SCREENING SHEET		1	
13		FRONT CONTROL PCB		1	
12	BPF4003C001	FRONT CAB.	HIPS SPRAYING OIL	1	
11	BRS0013C001	RUBBER SHEET		2	
10	GAL0047C001	DECORATING PART	CHROMED SILVER	1	
9	BPK2026C001	FUNCTION KEY3	ABS SPRAYING OIL	1	
8	BPK2024C001	FUNCTION KEY2	ABS SPRAYING OIL	1	
6	BPN0043C001	DISPLAY LENS	ACYLIC	1	
5	BPK8024C001	OPEN KEY	ABS SPRAYING OIL	1	
4	BPK2023C001	FUNCTION KEY1	ABS SPRAYING OIL	1	
3	BPD1015C001	DVD DOOR	HIPS SPRAYING OIL	1	
2	BPD1017C001	DVD DOOR TRIM	ABS SPRAYING OIL	1	
1	BPK8010C001	POWER KEY	ABS SPRAYING OIL	1	
NO	PART NO.	PART NAME	DESCRIPTION	QTY	REMARK

DO NOT SCALE

USE ON		公差區分				
MODEL NO.	CUSTOMER	區分	F	G	H	J
DR3.2	HITACHI					

UNIT	MM
SCALE	
DATE	2001.02.07
REVISION NO.	
ACAD FILE NAME	
MATERIAL	
FINISH	
DESIGNED	
CHECKED	
APPROVED	
PART NO.	
PART NAME	EXPLODE VIEW

ITE ELECTRONICS INC.